

**ROCKY FLATS PLANT
EMD OPERATING
PROCEDURES MANUAL**

Manual No.: 5-21000-OPS-SW
Procedure No.: Table of Contents, Rev 10
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Effective Date: 05/11/93
Organization: Environmental Management

THIS IS ONE VOLUME OF A SIX VOLUME SET WHICH INCLUDES:

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VOLUME II: GROUNDWATER (GW)
VOLUME III: GEOTECHNICAL (GT)
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SW.03	Surface Water Sampling	2	05/12/92
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ADMIN RECORD

A-SW-000607

DOCUMENT CLASSIFICATION REVIEW WAIVER
PER R.B. HOFFMAN, CLASSIFICATION OFFICE
JUNE 11 1991

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Proc. No.	Title	Rev. No.	Effective Date
SW.08	Pond Sampling	2	05/12/92
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SW.09	Industrial Effluent and Pond Discharge Sampling	2	05/12/92
SW.10	Event-Related Surface Water Sampling	1	02/20/92
DCN 93.01	Table Replacement-Attachment 1	1	01/15/93
SW.11	Operation and Maintenance of Stream-Gaging and Sampling Stations	1	02/20/92
SW.12	Site Description	2	05/12/92
DCN 92.01	Reduction in Unrequired Quality Check	2	07/21/92
SW.13	Bacteriological Water Sampling	2	05/12/92
SW.14	Automatic Sampling		To Be Added
SW.15	River and Ditch Sampling	2	05/12/92
SW.16	Sampling of Incidental Waters	2	05/12/92
SW.17	Pond and Reservoir Bottom Sediment Sampling	0	09/25/92
DCN 93.01	Decontamination	0	01/15/93
SW.28	Field Locating Effluent Pathways and Drains	0	09/25/92
SW.29	Dye Testing Building Drains	0	09/29/92
SW.30	Field Locating Chemicals of Concern	0	09/25/92
SW.33	Dye Testing Foundation Footing Drains	0	09/29/92

This is a **ENVIRONMENTAL MANAGEMENT**
CONTROLLED DOCUMENT **DOCUMENT CHANGE NOTICE (DCN)**

EG&G - ROCKY FLATS PLANT
 ENVIRONMENTAL MANAGEMENT
 Procedure Number 5-21000 OPS SVS Rev. 2
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Title Field Measurements of Surface Water Field Parameters		Date 5-11-93 <i>SLRD</i>	DCN Number 93.01 <i>SLRD</i>
Expires 5-11-93 <i>SLRD</i>		Procedure Revision Required <input type="checkbox"/> Yes <input type="checkbox"/> No	
Scope Limitation: OU6			

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for additional space)
1	12	5.6	<p>Change the first paragraph of section 5.6 to read as follows.</p> <p>Alkalinity measurements will accompany pH measurements as described in Subsection 5.5 of this procedure where required. The alkalinity measurements can be done either in the field or in the base laboratory. The titration should be done within 24 hours after collection. Sampling for storm runoff commonly requires collection of water samples in bulk with containerization and preservation of inorganic constituents within several hours at the base laboratory in accordance with SOP FO.13: Containerization, Preserving, Handling, and Shipping of Soil and Water Samples. In these instances, it is desirable to perform the alkalinity titration in the base laboratory in order to simplify the complicated logistics of sampling in rain storms and to prevent contamination of the alkalinity sample with rain water or other materials such as mud. Titration with an appropriate acid reagent will be used to measure alkalinity. Alkalinity measurements at the RFP will be conducted with a HACH digital titrator of equivalent. Follow the general procedures described below and see equipment manufacturer's instructions for detailed equipment-specific titration procedures.</p>

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Justification (Reason for change - Provide numbers to reference corresponding items above.)

1. Synoptic sampling of storm events for the Operable Unit Number 6 (OU6) Phase I RFI/RI requires manual sampling of storm runoff at 15 locations in OU6. This logistically complicated exercise requires collection of water samples in adverse weather conditions which slows down sampling crews and increases the chance of sample contamination. In order to expedite and simplify sample collection during storm events, alkalinity titrations and sample filtration must occur in the base laboratory instead of in the field. This SOP must be modified to allow delay of the alkalinity titrations until the sample is returned to the base laboratory several hours after collection.

Concurrence	Organization	Req.	Date	Concurrence	Organization	Req.	Date
<i>[Signature]</i>	QAPM	X	5/10/93	<i>[Signature]</i>	User		4/28/93
<i>[Signature]</i>	FOM	X	5-3-93	<i>[Signature]</i>	EQS		4/29/93
Approval of Responsible manager		Date		Is Posting required?		If Yes, by what date	
<i>[Signature]</i>		5/11/93		Yes <input type="checkbox"/> No <input type="checkbox"/>		Upon Receipt	
						Date posted	